

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1742	(327/291).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 13:18
L2	771	(381/104).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 13:19
L3	689	(381/107).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 13:19
L4	0	((single only one) adj2 pin) with (volume gain amplitude) with (modulat\$3 adj2 square-wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 13:28
L5	0	(modulat\$3 adj2 square-wave) with (control\$4 determin\$3) with (volume gain amplitude) with (amplifier)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 14:05
L6	3	(modulat\$3 adj2 square-wave) same ((control\$4 determin\$3) with (volume gain amplitude) with (amplifier))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 13:57
L7	5465	("AND" adj2 gate) with (control\$3 operat\$3) with switch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 13:59
L8	365	("AND" adj2 gate) near2 (control\$3 operat\$3) near2 switch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 13:59
L9	339	("AND" adj gate) adj3 (control\$3 operat\$3) adj2 switch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 14:16

## EAST Search History

L10	0	(modulat\$3 adj2 square-wave) adj3 (control\$4 determin\$3) adj2 (volume gain amplitude) adj2 (amplifier)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 14:05
L11	0	(modulat\$3 adj2 square-wave) adj3 (control\$4 determin\$3) adj2 (volume gain amplitude)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 14:05
L14	29	((("AND" adj gate) adj3 (control\$3 operat\$3) adj2 switch) and audio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 14:17
S3	867	(379/375.01,418).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:51
S4	6	keithley.in. and volume same control\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/08/29 14:04
S5	4	agilent.AS. and volume same control\$3 same counter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:53
S6	68	381/102-109.ccls. and volume same control\$3 same counter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:57
S7	152	(340/392.3).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:57
S8	36	381/102-109.ccls. and (volume same control\$3) and counter and compar\$5 and gate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 13:03
S9	15	381/102-109.ccls. and (volume same control\$3) and counter and compar\$5 and ("AND" near2 gate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:59

## EAST Search History

S10	5	381/102-109.ccls. and (volume same control\$3) and counter and (square near2 wave) and gate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:34
S11	867	(379/375.01,418).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 13:05
S12	2	S11 and (volume same control\$3) and counter and (square near2 wave) and gate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 13:11
S13	4	((("6944264") or ("6400821") or ("5010306") or ("4924511")).PN.	USPAT	OR	OFF	2007/03/08 13:12
S14	4	((("6944284") or ("6400821") or ("5010306") or ("4924511")).PN.	USPAT	OR	OFF	2007/08/29 14:00
S15	111	((modulat\$3 near3 square near2 wave) same count\$3) and (volume gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:21
S16	31	((modulat\$3 near3 square near2 wave) same count\$3) and (volume gain) and (audio sound)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:48
S17	1	381/102-109.ccls. and (modulat\$3 with (count\$3 near2 signal)) with (volume gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 13:22
S18	17	(modulat\$3 with (count\$3 near2 signal)) with (volume gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 14:48
S19	3	((("3796831") or ("4414877") or ("6016075")).PN.	USPAT	OR	OFF	2007/03/08 15:16
S20	176	(381/102).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:40

## EAST Search History

S21	0	S20 and counter same volume same (square near wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:24
S22	28	((modulat\$3 near3 square near2 wave) same count\$3) same (volume gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:23
S23	2425	(330/10,251,207A).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:24
S24	0	S23 and counter same volume same (square near wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:37
S25	24	"381"/\$.ccls. and (volume same control\$3) and counter and (square near2 wave) and gate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:35
S26	905	(330/284).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:37
S27	0	S26 and counter same volume same (square near wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:40
S28	374	(381/109).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:40
S29	0	S28 and counter same volume same (square near wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:40
S30	2501	((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 14:07

## EAST Search History

S31	0	((((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter) same (modulat\$4 near2 square near2 wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 14:11
S32	48	((((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:41
S33	1077	(375/345).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 14:40
S34	2	S33 and (square near2 wave near2 modulat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 14:41
S35	305	(327/179).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 14:41
S36	1846	(330/10).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 18:40
S37	2403	(327/172,356).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 18:40
S38	391	(340/825.25).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 19:11
S39	305	(327/179).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:41
S40	0	S39 and (((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:42

## EAST Search History

S41	1846	(330/10).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:41
S42	0	S41 and (((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:41
S43	2403	(327/172,356).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:41
S44	0	S43 and (((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:42
S45	391	(340/825.25).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:42
S46	0	S45 and (((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 14:54
S47	0	S39 and (((integrated near3 circuit)IC) same ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:42
S48	1	S39 and ((integrated near3 circuit)IC) same (volume gain) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:42
S49	0	S41 and ((integrated near3 circuit)IC) same (volume gain) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:43
S50	3	S43 and ((integrated near3 circuit)IC) same (volume gain) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 13:17

## EAST Search History

S51	2	S45 and ((integrated near3 circuit)IC) same (volume gain) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:43
S52	7	((modulat\$3 with count with signal) with (volume gain)) and (audio sound)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:48
S53	54	((integrated near3 circuit)IC) same (volume gain) same ((pluse square) near2 wave) same counter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:00
S54	1107	(700/94).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 14:59
S55	0	S54 and ((integrated near3 circuit)IC) same (volume gain) same ((pluse square) near2 wave) same counter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:00
S56	5	((integrated near3 circuit)IC) same (volume gain) same (timer) same counter same audio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:02
S57	0	((integrated near3 circuit)IC) same (volume gain) same (timer) same counter same ("AND" near2 gate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:02
S58	15	((integrated near3 circuit)IC) same (volume gain) same counter same ("AND" near2 gate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:13
S59	0	(timer ((square pulse) near2 wave)) with (audio near2 frequency) with count\$2 with volume	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:14
S60	3	((timer ((square pulse) near2 wave)) with (audio near2 frequency)) same count\$2 same volume	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:16

## EAST Search History

S61	8	((modulat\$3 chang\$3 alter\$3 adjust\$3) near2 count near3 signal) with ((volume gain) near3 signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:48
S62	5	counter with (volume near2 register) with comparator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:49
S63	8	("5596651").URPN.	USPAT	OR	OFF	2007/03/14 15:53
S64	5	("4731851"   "5189705"   "5303371"   "5394476"   "5596651").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/14 15:54
S65	724	((integrated near2 circuit) IC) near3 chip) same (volume gain) same amplifier	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:08
S66	198	((integrated near2 circuit) IC) near3 chip) with (volume gain) with amplifier	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:10
S67	38	((sound audio) near2 chip) same (volume gian) same amplifier	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:36
S68	2200	(counter) near3 "5" near2 (bit bits)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:40
S69	49	(counter near3 "5" near2 (bit bits)) and (memory near3 "5" near3 (bit bits))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:48
S70	0	((counter near3 "5" near2 (bit bits)) same ("500" near2 Hz)) and ((memory register) near3 "5" near3 (bit bits))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:49
S71	1	((counter near3 "5" near2 (bit bits)) same (frequency near2 MHz)) and ((memory register) near3 "5" near3 (bit bits))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:50



## EAST Search History

S72	4	((counter near3 "5" near2 (bit bits)) with (frequency near2 MHz))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:58
S73	602	(pulse (square near2 wave)) with frequency with ("500" near2 Hz)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:01
S74	20	((pulse (square near2 wave)) with frequency with ("500" near2 Hz)) same (volume gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:06
S75	31	((pulse (square near2 wave)) with frequency with ("500" near2 Hz)) same (audio sound)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:09
S76	3350	(register memory) near2 "5" near2 (bit bits)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:41
S77	6	"381"/\$.ccls. and (register memory) near2 "5" near2 (bit bits)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:12
S78	0	(pulse near2 width near2 register) near2 "5" near2 (bit bits)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:31
S79	0	((register memory) near2 "5" near2 (bit bits)) with determi\$4 with width with signal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:48
S80	0	((register memory) near2 "5" near2 (bit bits)) with (width near3 modulation near2 signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:51
S81	0	((register memory) near3 "5" near3 (bit bits)) with (control\$4 near4 pulse near2 width)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:52

## EAST Search History

S82	383	(register memory) near3 (control\$4 near4 pulse near2 width)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:55
S83	0	((register memory) near3 (control\$4 near4 pulse near2 width)) with ("5" near3 (bit bits))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:57
S84	3	((register memory) near3 (control\$4 near4 pulse near2 width)) same ("5" near3 (bit bits))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 15:00
S85	1	("5189705").PN.	USPAT	OR	OFF	2007/08/29 14:00
S86	1	keithley.in. and (volume same control\$3) and ((square adj2 wave) same (modulat\$3 adj2 signal))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/08/29 15:04
S87	48	((square adj2 wave) same (modulat\$3 adj2 signal)) same ("AND" adj2 gate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/03 13:23
S88	0	((square adj2 wave) same (modulat\$3 adj2 signal)) same ("AND" adj2 gate) same "on" same "off"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/08/29 15:19
S89	1	((square adj2 wave) same (modulat\$3 adj2 signal)) same ("AND" adj2 gate) same "off"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/08/29 15:20
S90	0	("("AND"adj2gate)near3pinnear3(IC)").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/12/21 14:34
S91	2	("AND" adj2 gate) near3 pin near3 (IC)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/12/21 14:35

## EAST Search History

S92	0	((square adj2 wave) same (modulat\$3 adj2 signal)) same ("AND" adj2 gate) with (single adj2 pin) with (IC (integrated adj2 circuit)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/03 13:24
S93	0	("AND" adj2 gate) with (single adj2 pin) with (IC (integrated adj2 circuit))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 10:59
S94	69	("AND" adj2 gate) with (pin) with (IC (integrated adj2 circuit))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/03 13:25
S95	6	("AND" adj2 gate) near3 (pin) near3 (IC (integrated adj2 circuit))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/03 13:25
S96	3	(single adj2 pin) with (volume gain amplitude) with (IC (integrated adj2 circuit)) with amplifier	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 11:00
S97	5	((single only one) adj2 pin) with (volume gain amplitude) with (IC (integrated adj2 circuit)) with amplifier	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 11:27
S98	0	((single only one) adj2 pin) with (volume gain amplitude) with (moudlat\$3 adj2 square-wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 13:28
S99	407	(340/825.25).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/04 11:40